



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

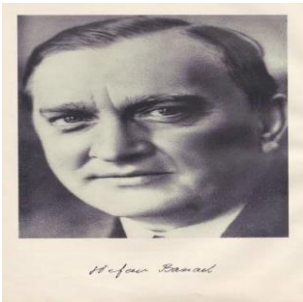
(A GOVT AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE AFFILIATED TO RGPV BHOPAL)

## DEPARTMENT OF ENGINEERING MATHEMATICS & COMPUTING

e-Newsletter

JULY – SEPT, 2023

visit us at: <https://web.mitsgwalior.in/academics/departments/engineering-mathematics-computing>



**Stefan Banach**  
(1892-1945)

Stefan Banach made important contributions to the understanding of vector spaces, measure theory, and set theory. His name is associated with Banach space, Banach algebra, the Hahn-Banach theorem, and the remarkable Banach-Tarski paradox.

### Vision

The Department of Engineering Mathematics & Computing was setup in 2020 to import knowledge of mathematics and computer science that serve the groom the academic potential of student and abreast with recent technological developments.

### Mission

- ❖ To develop an ability towards critical questioning.
- ❖ To enhance logical attitude and aptitude ability.
- ❖ To nurture the computational aptitude on a global platform.



B. Tech. programme in Engineering Mathematics and Computing offers the opportunity to combine an appreciation mathematical thinking with knowledge of computing. Mathematics is a fundamental intellectual tool in computing, but computing is increasingly used as a key component in mathematical problem solving. The course concentrates on areas where mathematics and computing are most relevant to each other, emphasizing the bridges between theory and practice. It offers opportunities for budding scientist in the field of Mathematics & Computing.

## PUBLICATIONS

**PAPER PUBLICATIONS**

- Kumar, A., Dash, A.P., **Ray, A. K.**, Sethy, P. and Kasireddy, I. (2023), "Unsteady mixed convective flow of hybrid nanofluid past a rotating sphere with heat generation/absorption: an impact of shape factor", *International Journal of Numerical Methods for Heat & Fluid Flow*, Vol. 33 No. 11, pp. 3691-3715, 2023 (SCI), <https://doi.org/10.1108/HFF-03-2023-0129>. **Impact Factor – 4.2.** (ISSN: 0961-5539).
- S. Negi, B. Kumar, Prachi, A Bhattacharyya, **Atul Kumar Ray**, A J Chamkha, "The Transport of Maxwell Fluid in the Rotating and Stretching System: Rotor-Stator Spinning Disc Reactor Applications", *Journal of Nanofluids*, 12 (3) 623-632(10), April 2023 (ESCI/WOS/SCOPUS). (ISSN: 2169-432X).  
<https://doi.org/10.1166/jon.2023.2007>
- Kalpana Rajput<sup>1</sup>, Rajshree Mishra, **D. K. Jain**, Altaf A. Bhat, Farooq Ahmad : The Fractional Integral Inequalities Involving Kober and Saigo–Maeda Operators ; *Communications in Advanced Mathematical Sciences*, Vol. 6, No. 3, pp 135-141, 2023 Research Article e-ISSN: 2651-4001 ;  
<https://doi.org/10.33434/cams.1275523>

**WORKSHOP/FDP ORGANISED**

- "Open Mic Campus" by "Lafz-e-Bayan" (Coordinator - **Dr. Atul Kumar Ray**, MITS) in collaboration with 3 A. M. Club Gwalior on 18th September, 2023.
- "Shabd Sandhya" by "Lafz-e-Bayan" (Coordinator - **Dr. Atul Kumar Ray**) in collaboration with the Department of Mathematics and Computing, MITS Gwalior on 16th August, 2023.

## WORKSHOP/FDP ATTENDED

- **Dr. Atul Kumar Ray, Dr. Divya Chaturvedi**, “One Week National Level Faculty Development Program (FDP) on Cloud Infrastructure (AWS), Organized by MLR Institute of Technology, Telangana in Collaboration with “Brainvision Solutions India Pvt Ltd., 21-25th July, 2023.

## ACHIEVEMENTS OF DEPARTMENT FACULTIES

- **Dr. Divya Chaturvedi**, Received letter of Appreciation for Teaching “Probability and Random Process (2250106)” and “Linear Algebra (2250224)”
- **Dr. Atul Kumar Ray**, Received letter of Appreciation for Teaching “Probability and Random Process (2250106)” and “Simulation Modeling and Analysis (2250225)”
- **Dr. Atul Kumar Ray**, Reviewed an Article in International Journal “Energy”, Elsevier, ISSN: 1873-6785 (SCI, Impact Factor - 9)
- **Dr. Atul Kumar Ray**, Reviewed an Article in “Case Study in Thermal Engineering”, Elsevier, ISSN: 2214-157X (SCI, Impact Factor - 7.8)
- **Dr. Atul Kumar Ray**, Reviewed an Article in “HELIYON”, Elsevier, ISSN: 2505-8440 (SCI, Impact Factor - 4)

## ACHIEVEMENTS & CONTRIBUTION OF STUDENTS OF THE DEPARTMENT

S/ No.	Enrolment No.	Name	Year	Name of the Event	Level of Event	Certificate of the Event
1	0901MC 201046	Parth Dhingra	Final	"X-Calibre 2k23" organized by ISTE Students' Chapter	Institute	<a href="https://drive.google.com/open?id=1q22DUMS2pxmpIptEv6fRSLFKVlt38Z-g">https://drive.google.com/open?id=1q22DUMS2pxmpIptEv6fRSLFKVlt38Z-g</a>

				MITS		
2	0901MC 221013	Anshul soni	2 <sup>nd</sup>	X- Calibre By ISTE	National	<a href="https://drive.google.com/open?id=1zjnQ20GYZF7PJhI2YLdMPZEyAsIPZYRh">https://drive.google.com/open?id=1zjnQ20GYZF7PJhI2YLdMPZEyAsIPZYRh</a>
3	0901MC 221013	anshul soni	2 <sup>nd</sup>	BGMI summer cup	State	<a href="https://drive.google.com/open?id=1EuzOwd7e70rw3s_2Qnzv7voZH16FrJro">https://drive.google.com/open?id=1EuzOwd7e70rw3s_2Qnzv7voZH16FrJro</a>
4	0901MC 221061	Saloni kushwah	2 <sup>nd</sup>	Tech trek	Institute	<a href="https://drive.google.com/open?id=19MjTviMIE_MUMKHMUVAAppJbtXQcTjOLe">https://drive.google.com/open?id=19MjTviMIE_MUMKHMUVAAppJbtXQcTjOLe</a>
5	0901mc 221061	Saloni kushwah	2 <sup>nd</sup>	Info session	Institute	<a href="https://drive.google.com/open?id=1NByXQA0Y6YfH1nyOZkARY8ADe3o9G-aN">https://drive.google.com/open?id=1NByXQA0Y6YfH1nyOZkARY8ADe3o9G-aN</a>
6	0901MC 221070	Sumit Tiwari	2 <sup>nd</sup>	GDSC info Session 2023	Institute	<a href="https://drive.google.com/open?id=1bNpc59omQ1226Y8DcU5-2SAjKlFMrwJo">https://drive.google.com/open?id=1bNpc59omQ1226Y8DcU5-2SAjKlFMrwJo</a>
7	0901MC 221070	Sumit Tiwari	2 <sup>nd</sup>	Robotics Workshop	Institute	<a href="https://drive.google.com/open?id=1rLWOYf-3A9Ak0T6dfQ5vMWEwn7usCTJj">https://drive.google.com/open?id=1rLWOYf-3A9Ak0T6dfQ5vMWEwn7usCTJj</a>
8	0901MC 221070	SUMIT TIWARI	2 <sup>nd</sup>	Karate: A Defence Move	Institute	<a href="https://drive.google.com/open?id=1UuPAFXDikEYvmV4phZhHGmSwSm-JD1WO">https://drive.google.com/open?id=1UuPAFXDikEYvmV4phZhHGmSwSm-JD1WO</a>
9	0901MC 221070	Sumit Tiwari	2 <sup>nd</sup>	Introducti on to Flutter Developm ent	Internati onal	<a href="https://drive.google.com/open?id=1UE9oTz_ErhxpKGMwnipwttwWnuSqktWu">https://drive.google.com/open?id=1UE9oTz_ErhxpKGMwnipwttwWnuSqktWu</a>
10	0901MC 221070	Sumit Tiwari	2 <sup>nd</sup>	Chandraya an-3 Mahaquiz	National	<a href="https://drive.google.com/open?id=1uo_wyVKEkMD-E20H87sSBFftodrn4xrb">https://drive.google.com/open?id=1uo_wyVKEkMD-E20H87sSBFftodrn4xrb</a>
11	0901MC 221070	SUMIT TIWARI	2 <sup>nd</sup>	Postman API Fundamen tals	National	<a href="https://drive.google.com/open?id=1mvMP-TFPnA_L-3uXlgiYK43wiZp8Ftw">https://drive.google.com/open?id=1mvMP-TFPnA_L-3uXlgiYK43wiZp8Ftw</a>
12	0901MC 221051	Om bhardwaj	2 <sup>nd</sup>	GDSC Info session	Institute	<a href="https://drive.google.com/open?id=1DObCv3On08boAQPjixErMPQfe_5Kdhay">https://drive.google.com/open?id=1DObCv3On08boAQPjixErMPQfe_5Kdhay</a>
13	0901MC 221051	Om bhardwaj	2 <sup>nd</sup>	Chandraya - 3Mahaqui z	National	<a href="https://drive.google.com/open?id=1aFXOwUzV9QTiDAj4vXrkOoQrcoAnoC-1">https://drive.google.com/open?id=1aFXOwUzV9QTiDAj4vXrkOoQrcoAnoC-1</a>
14	0901MC 221051	Om bhardwaj	2 <sup>nd</sup>	Karate: A defence move	Institute	<a href="https://drive.google.com/open?id=1Osq7LONkkiubA7EOkHCaxaanNw47Dx1d">https://drive.google.com/open?id=1Osq7LONkkiubA7EOkHCaxaanNw47Dx1d</a>
15	0901MC 221051	Om bhardwaj	2 <sup>nd</sup>	Tech Trek	Institute	<a href="https://drive.google.com/open?id=1uV14OHIFIK8d-L_eTxrsYltXyESxW3Zz">https://drive.google.com/open?id=1uV14OHIFIK8d-L_eTxrsYltXyESxW3Zz</a>
16	0901mc 211030	Harsh kushwaha	3 <sup>rd</sup>	Inter year cricket turnament	Institute	<a href="https://drive.google.com/open?id=1MBk0NQVGeLeBYSfF10tuaMRpref6txWN">https://drive.google.com/open?id=1MBk0NQVGeLeBYSfF10tuaMRpref6txWN</a>
17	0901MC 231063	Shauryan Tiwari	1 <sup>st</sup>	Ouiz	Institute	<a href="https://drive.google.com/open?id=1xG4IRsjzGRDWzymJAIFMrVZj1szRDdIJ">https://drive.google.com/open?id=1xG4IRsjzGRDWzymJAIFMrVZj1szRDdIJ</a>

18	0901MC 211061	Sonali Patel	3 <sup>rd</sup>	5 DAYS WORKSH OP ON AI & ML TOOLS AND TECHNI QUES	Institute	<a href="https://drive.google.com/open?id=1Js1P-W_oxWIw2aPds47JkxF0yPXE9uK">https://drive.google.com/open?id=1Js1P-W_oxWIw2aPds47JkxF0yPXE9uK</a>
19	0901MC 211061	sonali patel	3 <sup>rd</sup>	ClimateSc ience Olympiad 2023	National	<a href="https://drive.google.com/open?id=1bzxSr7hNYL_Aghw7Dax34O6TNAlelWyQ4">https://drive.google.com/open?id=1bzxSr7hNYL_Aghw7Dax34O6TNAlelWyQ4</a>
20	0901MC 201001	Akash Gaur	Final	Virtual Internship	National	<a href="https://drive.google.com/open?id=1bM8rFVNghTVBvJfG0YJV76k7Kc0CrfZU">https://drive.google.com/open?id=1bM8rFVNghTVBvJfG0YJV76k7Kc0CrfZU</a>
21	0901MC 201001	Akash Gaur	Final	Online Course for MathWor ks	National	<a href="https://drive.google.com/open?id=1wS51QcjF2jUiJNKNAQjhrW_ILyFTKTZD">https://drive.google.com/open?id=1wS51QcjF2jUiJNKNAQjhrW_ILyFTKTZD</a>
22	0901MC 201001	Akash Gaur	Final	Research Article	Internati onal	<a href="https://drive.google.com/open?id=19SwwmW2WAbRe_iJI-0b2P0HdLqV-mJbK">https://drive.google.com/open?id=19SwwmW2WAbRe_iJI-0b2P0HdLqV-mJbK</a>
23	0901MC 201001	Akash Gaur	Final	Chandraya an-3 Mahaquiz	National	<a href="https://drive.google.com/open?id=1oDZBlfbKH_OvFlzQ83KuBNKKroh3_18Ur">https://drive.google.com/open?id=1oDZBlfbKH_OvFlzQ83KuBNKKroh3_18Ur</a>
24	0901MC 221057	Rahul Rathore	2 <sup>nd</sup>	Google cloud (gdsc) info session	Institute	<a href="https://drive.google.com/open?id=1hhEW3LIWrQs9-bm8o1Kz4JvwtQe-2lpG">https://drive.google.com/open?id=1hhEW3LIWrQs9-bm8o1Kz4JvwtQe-2lpG</a>
25	0901MC 221057	Rahul Rathore	2 <sup>nd</sup>	Tech Trek	Institute	<a href="https://drive.google.com/open?id=1DCOW1ucctNX2cJI8s8973T33_TvXgG_F">https://drive.google.com/open?id=1DCOW1ucctNX2cJI8s8973T33_TvXgG_F</a>
26	0901MC 201063	Siddharth	Final	Flipkart Grid 5.0	National	<a href="https://drive.google.com/open?id=1oN1RooDY1fOqKKWd-54s94S4mL8KOzxO">https://drive.google.com/open?id=1oN1RooDY1fOqKKWd-54s94S4mL8KOzxO</a>
27	0901MC 201063	Siddharth	Final	Xiaomi Ode2Code 3.0	National	<a href="https://drive.google.com/open?id=1Vac3bgFAn8HXdnGh4jVT--XZh2QQcejp">https://drive.google.com/open?id=1Vac3bgFAn8HXdnGh4jVT--XZh2QQcejp</a>
28	0901MC 201063	Siddharth	Final	TVS Credit E.P.I.C 5.0 — Analytics Challenge	National	<a href="https://drive.google.com/open?id=1cG8BIQUdO_AoGUMe7oJAK2h0aqEe1maw8">https://drive.google.com/open?id=1cG8BIQUdO_AoGUMe7oJAK2h0aqEe1maw8</a>
29	0901MC 221009	Aniket Dandotiy a	2 <sup>nd</sup>	Google Cloud Skills Boost	National	<a href="https://drive.google.com/open?id=1ShAYQ0QuVG4CGD49jZTtUQ661Cfepr4Z">https://drive.google.com/open?id=1ShAYQ0QuVG4CGD49jZTtUQ661Cfepr4Z</a>
30	0901MC 201063	Siddharth	Final	Quiz-O- Pedia	Institute	<a href="https://drive.google.com/open?id=1ET09coWHMR76U8PTOyHrznT9-cXwjp7">https://drive.google.com/open?id=1ET09coWHMR76U8PTOyHrznT9-cXwjp7</a>
31	0901MC 201030	Isha Mathe	Final	NEURAL NETWOR K DEVELO PER	National	<a href="https://drive.google.com/open?id=1htcqSaB4d9EPNCRnthVtDeIV4ms2xhNR">https://drive.google.com/open?id=1htcqSaB4d9EPNCRnthVtDeIV4ms2xhNR</a>



32	0901MC 221009	Aniket Dandotiy a	2 <sup>nd</sup>	Google Cloud Skills Boost	Internati onal	<a href="https://drive.google.com/open?id=1-237zlA1G4BzoPoHailxdbIm2Bu4L9C0">https://drive.google.com/open?id=1-237zlA1G4BzoPoHailxdbIm2Bu4L9C0</a>
33	0901MC 201030	Isha Mathe	Final	Flipkart Grid 5.0	National	<a href="https://drive.google.com/open?id=1JMMjauG-ljDAWX8oMZi7aG2NENGG8HbO">https://drive.google.com/open?id=1JMMjauG-ljDAWX8oMZi7aG2NENGG8HbO</a>
34	0901MC 201030	Isha Mathe	Final	Xiaomi Ode2Code 3.0	National	<a href="https://drive.google.com/open?id=1ucDtEhE4IBiyWRBkTs9Z6bF8w2Mnn3KK">https://drive.google.com/open?id=1ucDtEhE4IBiyWRBkTs9Z6bF8w2Mnn3KK</a>
35	0901MC 201030	Isha Mathe	Final	C++ for problem solving - 1 by CodeChef	National	<a href="https://drive.google.com/open?id=1IsHNPw9rMOswS_Uw0cQmo6W2LHfh4eRo">https://drive.google.com/open?id=1IsHNPw9rMOswS_Uw0cQmo6W2LHfh4eRo</a>
36	0901MC 201030	Isha Mathe	Final	Learn C++ by CodeChef	National	<a href="https://drive.google.com/open?id=1FOQDkJYRTTdr5CXeYb5IxBSf2jKkvBG0">https://drive.google.com/open?id=1FOQDkJYRTTdr5CXeYb5IxBSf2jKkvBG0</a>
37	0901MC 221008	Amit tomar	2 <sup>nd</sup>	Quiz on disaster managem ent	National	<a href="https://drive.google.com/open?id=1VNJ0MOE46fKoZP03swIqEK0EOxCAqnvD">https://drive.google.com/open?id=1VNJ0MOE46fKoZP03swIqEK0EOxCAqnvD</a>
38	0901MC 221008	Amit tomar	2 <sup>nd</sup>	Quiz on disaster managem ent	Institute	<a href="https://drive.google.com/open?id=1XQ6hQAA0V-z8bw6of2Rk5_12HEP5eGSy">https://drive.google.com/open?id=1XQ6hQAA0V-z8bw6of2Rk5_12HEP5eGSy</a>
39	0901MC 221008	Amit tomar	2 <sup>nd</sup>	Quiz on pollution due to idol Emerson	Institute	<a href="https://drive.google.com/open?id=1LdxgLe9DIVuaAGi349wLPyeVP3wj75dQ">https://drive.google.com/open?id=1LdxgLe9DIVuaAGi349wLPyeVP3wj75dQ</a>
40	0901MC 211045	Poornika Sharma	3 <sup>rd</sup>	NCC CATC Camp at 8MP BN	State	<a href="https://drive.google.com/open?id=1J5HGkzuFmrIWMdYwd5CMb-o5euKY-eQ1">https://drive.google.com/open?id=1J5HGkzuFmrIWMdYwd5CMb-o5euKY-eQ1</a>
41	0901MC 211045	Poornika Sharma	3 <sup>rd</sup>	B certificate in NCC	National	<a href="https://drive.google.com/open?id=16hJPzvt9T3VIH49uIUerPLf1HtoF_GcE">https://drive.google.com/open?id=16hJPzvt9T3VIH49uIUerPLf1HtoF_GcE</a>

## DEPARTMENTAL/INSTITUTIONAL SOCIAL MEDIA ACCOUNTS



<https://www.youtube.com/c/MITSLive>

Link: <https://youtube.com/channel/UCB4Z-cETRTnADvi-nXwwCXg>



Link: [https://www.instagram.com/invites/contact/?i=1wta8dhr95nec&utm\\_content=p8ctdpe](https://www.instagram.com/invites/contact/?i=1wta8dhr95nec&utm_content=p8ctdpe)



Link: <https://www.facebook.com/MitsMadhavIstituteOfTechnologyScienceGwalior>



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